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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,014	03/16/2004	Razieh Roufoogaran	BP3274 2733	
5 1577	7590 02/26/2008 RRISON & MARKISON		EXAMINER	
P.O. BOX 1607	727		TRAN, PABLO N	
AUSTIN, TX 78716-0727		w.	ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			02/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary						
		10/802,014	ROUFOOGARAN ET AL.			
	Office Action Summary	Examiner	Art Unit			
	The MAN WO DATE AND	Pablo N. Tran	2618			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)🖂	Responsive to communication(s) filed on <u>04 De</u>	ecember 2007.				
	This action is FINAL . 2b)⊠ This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-30</u> is/are pending in the application. 4a) Of the above claim(s) <u>3-5,7-15,18-20 and 25.</u> Claim(s) is/are allowed. Claim(s) <u>1,6,16 and 21</u> is/are rejected. Claim(s) <u>2, 17</u> is/are objected to. Claim(s) are subject to restriction and/or	<i>2-30</i> is/are withdrawn from consid	deration			
Applicati	on Papers					
	The specification is objected to by the Examine	•				
	The drawing(s) filed on is/are: a) acce		Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
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Attachment	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6, 16, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Macnally et al. (7,065,327) in view of Candal (2005/0195113).

As per claims 1 and 16, Macnally et al. disclose a radio frequency integrated circuit (fig. 1, col. 2/ln. 20-21) comprising a radio front end (fig. 1) operable coupled to transceiver radio frequency signals; a low noise amplifier (fig. 1/item LNA, col. 3/ln. 30-57) operable coupled to the radio front end, wherein the low noise amplifier receives inbound RF signals from the radio front end, and wherein the low noise amplifier amplifies the inbound RF signals to produce amplified inbound RF signals; down conversion module (fig. 1, col. 3/ln. 30-57) operable coupled to convert the amplified inbound RF signals into inbound baseband signals; baseband processing module (fig. 1, col. 3/ln. 30-57) operable coupled to convert the inbound baseband signals into inbound data and to convert outbound data into outbound baseband signals in accordance with a wireless communications protocol; up conversion module (fig. 1, col. 3/ln. 30-57) operable coupled to convert the outbound baseband signals into outbound

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RF signals; and a power amplifier (fig. 1/itwm PA, col. 3/ln. 30-57) operable coupled to amplify the outbound RF signals to produce amplified outbound RF signals and to provide the amplified outbound RF signals to the radio front end. Macnally et al. further disclose the radio front end includes a transformer (fig. 1) having a first winding and a second winding, wherein the first winding is operable coupled to an antenna and the second winding coupled to at least one of a power amplifier and a low noise amplifier, and an adjustable load operable coupled to the second winding (fig. 1, col. 5/ln. 3-23).

Macnally et al. disclose such matching network with a first impedance based on a first impedance selection signal when the radio front end is in a transmit mode and provides a second impedance based on a second impedance selection signal when the radio front end is in a receive mode but not specifically such that impedance at the first winding is substantially similar in the transmit mode and in the receive mode. However, Candal suggested such matching network configuration [0023]. Therefore, it would have been obvious to one of ordinary skill in the art for Macnally et al. to utilize such matching network configuration, as taught by Candal, in order to improve transmission signals while optimized power consumption effectively.

As per claims 6 and 21, the modified communication apparatus of Macnally et al. and Candal. further disclose determining the load impedance selection signal based on at least one of impedance matching of load on single-ending winding, output power requirements, or receiver sensitivity (see Macnally et al., col. 6/ln. 48-col. 7/ln. 57).

Allowable Subject Matter

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3. Claims 2 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (571)272-7898. The examiner normal hours are 9:30 -5:00 (Monday-Friday). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571)272-7899. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) System. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-directauspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PABLO N.TRAN PRIMARY EXAMINER

February 17, 2008

Avrlux